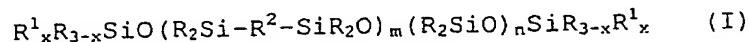
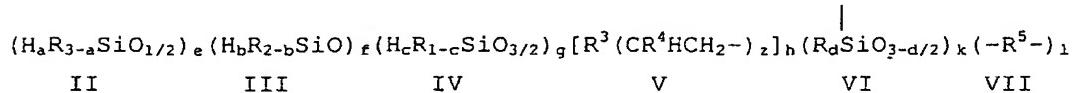


Claims:

1. The use of antimisting additives in crosslinkable
5 silicone coating compositions for reducing the formation of aerosol, characterized in that use is made as antimisting additives of siloxane polymers containing branched alkenyl groups and preparable by reacting
10 α,ω -dialkenylsiloxane polymers (1) of the general formula



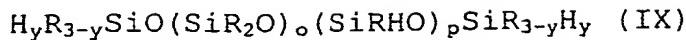
where R denotes identical or different, unhalogenated or halogenated hydrocarbon radicals having from 1 to 18 carbon atoms per radical,
15 R^1 is a terminally aliphatically unsaturated organic radical,
 R^2 is a divalent organic radical having 2 to 30 carbon atoms per radical or a divalent silane or siloxane radical having 2 to 10 Si units,
20 x can be identical or different and is 0 or 1, on average from 0.7 to 1.0,
m is 0 or an integer from 1 to 10,
and n is 0 or an integer from 1 to 1000,
25 with organosilicon compounds (2) containing at least 3 Si-bonded hydrogen atoms per molecule and of the general formula



where R is as defined above,
30 R^3 is a trivalent to decavalent aliphatically saturated hydrocarbon radical having 1 to 20 carbon atoms, which may contain one or more heteroatoms selected from the group of oxygen, boron, silicon and titanium,

- R⁴ is a hydrogen atom or an alkyl radical having from 1 to 6 carbon atoms per radical,
- R⁵ is a divalent hydrocarbon radical having from 2 to 30 carbon atoms, which can be linear, branched or
- 5 cyclic and may contain one or more separate oxygen atoms,
- a is 0, 1, 2 or 3,
- b is 0, 1 or 2,
- c is 0 or 1,
- 10 d is 0, 1 or 2,
- z is an integer from 3 to 10,
- e, f, g, h, k and l are each 0 or a positive integer,
- 15 with the proviso that if h and k are each a positive integer and l is 0, the structural elements V are bonded exclusively to the structural elements VI, and
- that if h is 0 and l is a positive integer, the structural elements VII are bonded to the structural elements VI,
- 20 in the presence of catalysts (3) which promote the addition of Si-bonded hydrogen onto aliphatic double bond.
- 25 2. The use as claimed in claim 1, characterized in that α,ω-dialkenylsiloxane polymers (1) used are those of the general formula
- $$R^1 R_2 SiO(R_2 SiO)_n SiR_2 R^1 \quad (I')$$
- where R, R¹ and n are as defined in claim 1.
- 30 3. The use as claimed in claim 2, characterized in that α,ω-dialkenylsiloxane polymers (1) used are α,ω-divinylpolydimethylsiloxanes.
- 35 4. The use as claimed in claim 1, characterized in that as organosilicon compound (2) use is made of that of

the general formula



where R is as defined above,

y is 0, 1 or 2,

5 o is 0 or an integer from 1 to 1500 and

p is an integer from 1 to 200,

with the proviso that there are at least 3 Si-bonded hydrogen atoms per molecule.

10 5. The use as claimed in any one of claims 1 to 4, characterized in that use is made as crosslinkable silicone coating compositions of those comprising

(A) organosilicon compounds having radicals containing aliphatic carbon-carbon multiple bonds,

15 (B) organosilicon compounds containing Si-bonded hydrogen atoms,

(C) catalysts which promote the addition of Si-bonded hydrogen onto aliphatic multiple bond,

20 and if desired

(D) inhibitors.

6. A crosslinkable silicone coating composition featuring reduced aerosol formation, comprising

25 (X) antimisting additives as set forth in any one of claims 1 to 4,

(A) organosilicon compounds having radicals containing aliphatic carbon-carbon multiple bonds,

30 (B) organosilicon compounds containing Si-bonded hydrogen atoms,

(C) catalysts which promote the addition of Si-bonded hydrogen onto aliphatic multiple bond,

and if desired

35 (D) inhibitors.

7. A shaped body produced by crosslinking the compositions of claim 6.
8. The shaped body as claimed in claim 7, characterized in that it is a coating.
5
9. The shaped body as claimed in claim 8, characterized in that it is a coating which repels tacky substances.
10
10. A process for producing coatings by applying crosslinkable compositions as claimed in claim 6 to the surfaces that are to be coated and then crosslinking the compositions.
15
11. A process for producing coatings which repel tacky substances, by applying crosslinkable compositions as claimed in claim 6 to the surfaces that are to be made repellent to tacky substances and then crosslinking the compositions.
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